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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/566,324	01/26/2006	Koichiro Minato	Y-233	3509	
	802 7590 06/01/2007 PATENTTM.US			EXAMINER	
P. O. BOX 827		THOMAS, ERIC W			
PORTLAND, O	JR 97202-0700		ART UNIT	PAPER NUMBER	
			2831		
			MAIL DATE	DELIVERY MODE	
			06/01/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/566,324	MINATO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Eric Thomas	2831				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	ne correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY	/ IS SET TO EVOIDE 2 MONT					
WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICAT 36(a). In no event, however, may a reply by rill apply and will expire SIX (6) MONTHS to cause the application to become ABANDO	ION.  be timely filed  from the mailing date of this communication.  DNED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 26 Ja	nuary 2006.					
2a) This action is <b>FINAL</b> . 2b) ⊠ This	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11	, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-5</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-5</u> is/are rejected.	•					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner	r.					
10)⊠ The drawing(s) filed on <u>26 January 2006</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Off	ice Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119	∂(a)-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau	, , , ,					
* See the attached detailed Office action for a list of the certified copies not received.						
·						
Attachment(s)	· 					
1) Notice of References Cited (PTO-892) ^ 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summ Paper No(s)/Ma					
3) Information Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice of Inform	al Patent Application				
Paper No(s)/Mail Date <u>1/06</u> . 6) Other:						

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#### **DETAILED ACTION**

### Information Disclosure Statement

1. The listing of references in the specification is not a proper information disclosure statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other information submitted for consideration by the Office, and MPEP § 609.04(a) states, "the list may not be incorporated into the specification but must be submitted in a separate paper." Therefore, unless the references have been cited by the examiner on form PTO-892, they have not been considered.

## Specification

2. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

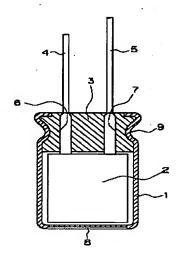
# Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein

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were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 2002-198270 ('270) in view of JP 01-135849 ('849).



'270 discloses an aluminum electrolytic capacitor (fig. 1) comprising a bottomed cylindrical metal case (1) for accommodating a capacitor element (2) having a driving electrolyte (see paragraphs 41-42) impregnated therein and an elastic sealing member sealing the open portion of the metal case (3).

'270 discloses the claimed invention except for the sealing member is made from a primary composition ethylene-propylene-diene three way copolymer rubber (EPDM) containing 30-70 wt% of ethylene and the glass transition temperature of the sealing member is in the range between –70 and –30 degrees C.

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'849 teaches the use of an improved sealing material comprising a primary composition ethylene-propylene-diene three way copolymer rubber containing 30-70 wt% of ethylene (see page 2, col. 2, lines 4-20); wherein the sealing member has a glass transition temperature in the range between -70 and -30 degrees C (see page 2 col. 2 lines 4-5).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to use the sealing material of '849 in the capacitor of '270, since such a modification would seal the capacitor with a material having high compression and fatigue strength.

Regarding claim 2, '849 teaches that the diene in the EPDM comprises 1,4-hexadiene in the amount between 3-6 wt.% (0.5 – 10 wt%).

Regarding claim 3, '849 teaches that the EPDM is bridged with peroxide.

Regarding claim 4, '270 discloses the driving electrolyte comprises γ – butyrolactone and imidazolium salt (see paragraphs 41-42).

Regarding claim 5, '849 teaches that the EPDM is bridged with peroxide.

#### Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US 6,307,733 – an aluminum electrolytic capacitor comprising a metal housing and driving electrolyte.

JP 2002-371161 – discloses a rubber sealant used in aluminum electrolytic capacitor comprising EPDM containing 30-70 wt% of ethylene.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric Thomas whose telephone number is 571-272-1985.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean Reichard can be reached on 571-272-1984. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

The examiner can normally be reached on Monday - Friday 6:30 AM - 3:45 PM.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ewt

Eric Thomas

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